LAND APPLICATION SITE THOMAS B ABERNATHY SITE DWTBA 1-5 DINWIDDIE COUNTY

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

A. This land application ag here as "Landowner", and remains in effect until it is the Landowner in the ever individual parcels identified longer be authorized to red Landowner: The Landowner is the own	reement is made on Recyc Systems, Inc. terminated in writing by either at of a sale of one or more part in this agreement changes, the cive biosolids or industrial receive of record of the real proper all or reclamation sites identifie	between T) eferred to here as the "Pe party or, with respect to the cels, until ownership of all those parcels for which ow siduals under this agreement	referred to referred to rmittee". This agreement nose parcels that are retained by parcels changes. If ownership of vnership has changed will no ent.
attached as Exhibit A.	thorized to receive biosolids,		
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
TM 91 P14 TM 91 P15			
	nd Application Sites are identified on		
Check one: X T	ne Landowner is the sol <mark>e ow</mark> n ne Landowner is one of multip	er of the properties identifulation of the properties.	s identified herein.
within 38 months of the lat 1. Notify the purchas later than the date	est date of biosolids application	on, the Landowner shall: able public access and cro	ch biosolids have been applied p management restrictions no er.
notify the Permittee immed	ner agreements for land applic diately if conditions change su of this agreement becomes in	ich that the fields are no lo	ed herein. The Landowner will inger available to the Permittee erein contained becomes
agricultural sites identified inspections on the land ide	ants permission to the Permit above and in Exhibit A. The entified above, before, during mpliance with regulatory requ	Landowner also grants pe or after land application of	ermission for DEQ staff to conduct f permitted residuals for the
	ter treatment residuals · F ∕es □ No ⊠	ood processing waste I Yes □ No	Other industrial sludges ☑ Yes ☐ No
WFAbernathy Estate	Shome	B. alleath	McKenner/ Ut 23870
Landowner - Printed Name, Ti	tle Signature	7	Mailing Address & Phone Number 404 476 - 4946
manner authorized by the VF	A Permit Regulation and in amo	unts not to exceed the rates	als on the Landowner's land in the identified in the nutrient management
The Permittee agrees to noti	application field by a person certify the Landowner or th	ner's designee of the propose	ed schedule for land application and the source of residuals to be applied.
☐ I reviewed the document(s document(s) available to DE		the person signing for lands	wner above. I will make a copy of this
A Harrison M	ody		
	A-G-Mu entative Signature	PO Box 562 I	Remington, Virginia 22734 Mailing Address
Rev 9/14/2012 Shouts	Shube		Page 1 of 2

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

erm	ittee:	Rec	yc Systen	ns, Inc	Danish (North St. 1887) and Co. Michigan	Cour	nty or City: _	V)	inwiddia	or Charge annual (France)
nd	lowner:	WŦ	Aberr	athy	Estate	c 10	Thomas	B.	Abenathy	
ınc	iowner	Site N	/lanagem	ent Requ	uirements:					
									egarding regulations gove ation of biosolids.	erning the land
entif	ied below	/ must l	e complied	with after b		been ap			ents and site access restri in order to protect public l	
	e to imple		ne following	site manag	gement practic	es at ea	ich site under n	ny owne	ership following the land a	application of
1.		s land a							oose of identifying my field days after land applicatio	
2.	Public A		access to la	and with a h	nigh potential f	or public	c ex posure sha	ll be res	stricted for at least one ye	ar following
	b. c.	any ap Public applica same Turf gr when t	plication of access to la ation of bios period of tim own on land	biosolids. and with a leolids. No be ne unless act where biosed turf is pla	ow potential fo losolids amen dequate provi solids are app	or public ided soil sions are blied sha	exposure shall shall be excav e made to prev- ill not be harves	be rest rated or ent pub sted for	tricted for at least 30 days removed from the site du lic exposure to soil, dusts one year after application ublic exposure or a lawn,	s following any uring this or aerosols; n of biosolids
3.	Crop Re			anyaatad ay	arte that touch	the bies	olida/sail mivtu	ro and	are totally above the land	aurface chall
	b. c. d. e.	not be Food of applica month Food of biosoli Other	harvested for rops with har tion of bios sprior to income rops with har ds remain of food crops a rops shall no	or 14 month arvested parolids when corporation arvested parolithe in the land of and fiber cro	hs after the aparts below the the biosolids into the soil, arts below the surface for a tops shall not be	oplication surface remain c surface ime perione harve	of biosolids. of the land sha on the land surf of the land sha od of less than sted for 30 day	Il not be ace for Il not be four (4) s after t	e harvested for 20 months a time period of four (4) of harvested for 38 months months prior to incorpora the application of biosolid colids (60 days if fed to la	s after the or more s when the ation.
4.	Follo a.	owing b Meat p	roducing liv	olication to estock sha	pasture or hay	d for 30		ave.		
					ted from grazi			ауъ.		
5.	application	ons suc	h that the to	otal crop ne	eds for nutrie	nts are r		s identit	the biosolids and industr fied in the nutrient manag ginia;	
6.	Tobacco years fol	, becau	se it has be	en shown to	to accumulate	cadmiu	m, should not b	e grow	n on the Landowner's lan lum equal to or exceeding	
	11		0 /	21.	th.				6-5-17	
_ <	Landowr	ner's Si	gnature	Jun	Ty.		and the state of the section of the		Date	
- 1) \	NA.	A.			1 -			. 1	1 //
1	Farm Op	perator	Signature			101	à Cotbal Ma		rch bd McK dress & Phone Number	enry Ut -
				. 7				J		

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-V	I: LAND A	PPLICATIO	ON AGREEM	ENT - BI	OSOLID	S AND IN	IDUSTRIAL F	RESIDUAL	.S
the Landow individual p	ner in the ev arcels identif	ent of a sale ied in this ag	of one or mor	e parcels, ges, those	until own parcels f	ership of a for which o	rermittee". This those parcels the large parcels change whereship has conent.	ges. If own	ership of
Landown The Lando the agricult attached as	wner is the ovural, silvicultu	wner of recor	rd of the real p nation sites ide	roperty loc entified bel	cated in _ ow in Tab	() inwhite	ddie, Virgini dentified on the	a, which inc tax map(s)	ludes
Table	e 1.: Parcels	authorized to	receive biosc	olids, wate	r treatmer	nt residuals	s or other indus	trial sludge:	S
Tax F	Parcel ID	T	ax Parcel ID		Tax F	Parcel ID	AND CONTRACT THE PROPERTY OF THE PARTY OF TH	ax Parcel II	D
TMGI	P 17								
☐ Additional pa	rcels containing	Land Applicatio	n Sites are identif	ied on Suppl	ement A (ch	leck if applica	able)	CUMPANIE AL PRINCIPIO	
Check one	×	The Landov	ner is the sole	owner of	the prope	rties ident		rein.	
within 38 m 1. No	nonths of the tify the purch er than the da	latest date o aser or trans ate of the pro	f biosolids app	lication, the policable plant and	e Landov public acce	vner shall: ess and cr	op managemer		1.0
The Lando notify the P	wner has no Permittee imm	other agreen nediately if co	nents for land	application ge such th	on the fi	elds identil ds are no l	fied herein. The longer available lerein containe	e to the Perr	
agricultural inspections	sites identific on the land	ed above and identified about the second	d in Exhibit A. ove, before, du	The Land uring or aff	lowner als er land ap	o grants population of	s as specified I ermission for D of permitted res uch application.	EQ staff to iduals for the	conduct
<u>Class B b</u> ⊠ Yes	iosolids <u>V</u> □ No ⊠	/ater treatme I Yes □ N	ent residuals lo		processing		Other industrial Yes	□ No :	0.1
Thomas BA	bernathy	V.	Thomas	19 /	Share	4	Mckenney	VA 238	573
Landowner -	- Printed Name,	Title	Signature		-	10	Mailing Address	& Phone Numb	er Ma
Permittee							क्रम न	10 97	10
manner auth	orized by the	VPA Permit R	egulation and in	amounts r	ot to exced	ed the rates	uals on the Lando identified in the 1-104 2 of the C	nutrient man	agement
							sed schedule for e the source of r		
							owner above. I versigns this agree		opy of this
14.			1/1	Nen!	/	D	m	<i>(</i> -, , , , , , , , , , , , , , , , , , ,	70.4
Permittee -	Authorized Repr		Signature	MOT Y	F()	BOX 562	Remington, V Mailing Address	urginia 22	734

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Page 1 of 2

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permi	ttee: _	Recyc S	ystems, l	nc	County or City:	Dinwida	iè	
Lando	owner:	Thomas	B.f	rbemathi	4-			
and	*>341870	Site Man	an mant	Requirement	****			
					t Sheet that includes inform d proper handling and land			he land
dentifi	ed belov	w must be cor	nplied with		at the site management red ave been applied on my pro- actices.			and
	to impl ds at the		owing site	management pra	actices at each site under m	ny ownership follow	ving the land applicat	ion of
		s land applica			osted by the Permittee for the by the Permittee, until at le			it s ite is
2.	b.	Public access any applicate Public access application of same period Turf-grown of	ion of bios as to land v of biosolids I of time ur on land wh arvested tu	olids. vith a low potenti. No biosolids ar iless adequate pi ere biosolids are f is placed on eit	tial for public exposure shall al for public exposure shall mended soil shall be excav rovisions are made to preve applied shall not be harves ther land with a high potent	be restricted for at ated or removed fr ent public exposure sted for one year at	least 30 days follow om the site during thi to soil, dusts or aem fer application of bios	ing any s osols; solids
	a. b. c. d. e.	not be harve Food crops application of months prio Food crops biosolids res Other food of Feed crops animals).	ested for 14 with harve of biosolids or to incorpo with harve main on the crops and f shall not be	4-months after the steed parts below when the blosolid partion into the solid parts below a land surface for iber crops shall n	uch the biosolids/soil mixtue application of biosolids. the surface of the land shabids remain on the land surfacil, the surface of the land shar a time period of less than not be harvested for 30 days of days after the application	Il not be harvested ace for a time period II not be harvested four (4) months priod after the application	for 20 months after to do of four (4) or more for 38 months when or to incorporation.	he the
4.		Meat product Lactating da	ds applica cing livesto iry animals	shall not be gra	hayland sites: razed for 30 days, zed for a minimum of 60 da grazing for 30 days;	ays.		
	applicat	ions such tha	t the total of	crop needs for nu	optications will be coordinat strients are not exceeded a with §10.1-104.2 of the Code	s identified in the n	ls and industrial residutrient management	luais plan
	years fo		pplication of	of biosolids or ind	ilate cadmium, should not b lustrial residuals which bea			ree
/ -	11	. 12	1	1		1 /-	17	18
~	Landow	mer's Signatu	re	-56		6-5- Di	ate	
	1	0		1				
_	(Kn	11			Hell will i	4	21 Making	1/1/1200
	Farm O	perator Signa	ture		LICIA CUTOCAL Ma	ailing Address & Phor	Ad McKnm ne Number	7 UHUSE
			CA1045-2905			64 731-4		

FARM DATA SHEET

SITE NAME:	Thomas B. Abernathy	COUNTY:	Dinwiddie
OWNER:	Thomas B. Abernathy and W. F. Abernathy Estate c/o Thomas B. Abernathy	OPERATOR:	Robert T. Maass
OWNER'S	24920 Cutbank Church Rd.	OPERATOR'S	11012 Cutbank Church Rd.
ADDRESS:	McKenney, VA 23872	ADDRESS:	McKenney, VA 23872
OWNER'S TELEPHONE:	804-478-4946	OPERATOR'S TELEPHONE:	804-691-2928
GENERAL FARM TYPE:	Hay/ Pasture	CELL PHONE:	-
# CATTLE:	20	EMAIL:	-
LAGOON or SLURRY:	None	LATITUDE:	36.927
TOPO QUAD:	McKenney	LONGITUDE:	-77.697
COMMENTS:		METHOD OF DETERMINATION:	Online Maps
			BB &
d			11 5 10

RECYC SYSTEMS, INC FIELD DATA SHEET

Field	DEQ	Gross	Environr	nentally Se	ensitive	Soils		Tax	FSA
Identification	Control ID	Acres	Water Table	Bed Rock/ Shallow	Surf/ Leach	Freq Flood	Hydro Map	Map#	Tract #
DWTBA 1	51053-00347-0000	23.8	-	-	-		CU 13	91-14	T 806 F 4, 5, 8
DWTBA 2	51053-00348-0000	15.6	-	-	-	-	CU 13	91-14	T 806 F 7, 9
DWTBA 3	51053-00349-0000	19.5	-	-	-	-	CU 13	91-14 91-15	T 806 F 2, 3, 6, 7
DWTBA 4	51053-00350-0000	8.1	-	=	-)=)	CU 13	91-14	T 806 F 1
DWTBA 5	51053-00351-0000	20.6	-	-	-	-	CU 13	91-17	T 837 F 1-6
	a0								
TOTAL ACRES IN SITE		87.6							

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Landowner Coordination Form

This form is used by the Permittee to identify properties (tax parcels) that are authorized to receive biosolids and/or industrial residuals, and each of the legal landowners of those tax parcels. A Land Application Agreement-Biosolids and Industrial Residuals from original signature must be attached for each legal landowner identified below prior to land application at the identified parcels.

Permittee:

Recyc Systems, Inc

Site Name:

Thomas B. Abernathy

County or City:

Dinwiddie County

Please Print

Signature not required on this page

Tax Parcel ID(s)	Landowners (s)
91-14	W. F. Abernathy Jr. Estate c/o Thomas B. Abernathy
91-15	W. F. Abernathy Jr. Estate c/o Thomas B. Abernathy
91-17	Thomas B. Abernathy

Page 1 of 2

Report Number: 17-256-0502

Account Number: 70594

Send To: Recyc Systems Inc

Susan Trumbo 8455 Whiteshop Road Culpepper VA 22701



7621 Whitepine Road, Richmond, VA 23237 Main 804-743-9401 ° Fax 804-271-6446 www.waypointanalytical.com

Grower: Thomas B. Abernathy

Dinwiddie

"Every acre...Every year." TM

SOIL ANALYSIS REPORT

Analytical Method(s):

SMP Buffer pH Mehlich 3 Loss On Ignition Water pH

Date Received: 09/13/2017

Date Of Analysis: 09/14/2017

Date Of Report: 09/15/2017

	Γ	ОМ	W/V	ENR	position and and	Phosphorus		Potassium	Magnesium	Calcium	Sodium	p	Н	Acidity	C.E.C
Sample ID Field ID	Lab Number	% Rate	Soil Class	lbs/A	M3 ppm Rate	ppm Rate	ppm Rate	K ppm Rate	Mg ppm Rate	Ca ppm Rate	Na ppm Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
DWTBA-2	24462	2.2 L		90	55 H			51 L	34 M	405 H		6.1	6.89	0.4	2.8
DWTBA-3	24463	3.1 M		106	23 L			41 L	60 M	563 H		6.2	6.88	0.5	3.9
DWTBA-4	24464	3.2 M		92	196 VH			67 VL	49 VL	3006 VH		7.9		0.0	15.6

		Perce	nt Base	Saturati	on	Nitrate	Sulfur	Ziı	nc	Manga	nese	Iron	Copper	Boron	Soluble Salts		
Sample ID Field ID	K %	Mg %	Ca %	Na %	H %	NO ₃ N ppm Rate	S ppm Rate	Z ppm	14 SECT 00000	Mı ppm		Fe ppm Rate	Cu ppm Rate	B ppm Rate	SS ms/cm Rate	2 2	
DWTBA-2	4.7	10.1	72.3		14.3			3.2	М	19	М						
DWTBA-3	2.7	12.8	72.2		12.8			2.4	М	20	М						
DWTBA-4	1.1	2.6	96.3		0.0			10.5	VH	10	М						

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: Waypoint Analytical Virginia, Inc.

Pauric McGroary

Page 2 of 2

Report Number: 17-256-0502

Send To: Recyc Systems Inc

Susan Trumbo

Account Number: 70594

Waypoint

7621 Whitepine Road, Richmond, VA 23237 Main 804-743-9401 ° Fax 804-271-6446 www.waypointanalytical.com

"Every acre...Every year." TM

Grower: Thomas B. Abernathy

Dinwiddie

Date Received: 09/13/2017

8455 Whiteshop Road Culpepper VA 22701

Date Of Report: 09/15/2017

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N Ib/A	Phosphate P ₂ O ₅ Ib/A	Potash K ₂ O Ib/A	Magnesium Mg Ib/A	Sulfur S lb/A	Zinc Zn Ib/A	Manganese Mn Ib/A	Iron Fe Ib/A	Copper Cu Ib/A	Boron B Ib/A
DWTBA-2	Adjust pH to 6.8	0	1.3				18			2			
DWTBA-3	Adjust pH to 6.8	0	1.3				5			2			
DWTBA-4	Adjust pH to 6.8	0	0.0				25			2			

Comments:

Sample(s): DWTBA-3 Crop: Adjust pH to 6.8

Apply dolomitic lime to raise pH and improve the magnesium level.

If dolomitic lime is not used, apply required magnesium with magnesium oxide. Epsom Salts, K-Mag or Sul-PO-Mag.

Sample(s): DWTBA-4 Crop: Adjust pH to 6.8

Apply required magnesium with magnesium oxide, Epsom Salts, K-Mag or Sul-PO-Mag.

Cation Exchange Capacity may be over-estimated due to high pH and free lime in the soil.

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Pauric McGroary

Page 1 of 1

Report Number: 17-172-0504

Send To: Recyc Systems Inc

Susan Trumbo

8455 Whiteshop Road Culpepper VA 22701

Account Number: 70594



7621 Whitepine Road, Richmond, VA 23237 Main 804-743-9401 ° Fax 804-271-6446 www.waypointanalytical.com

"Every acre...Every year." TM

Grower: T.B Abernathy Dinwiddie

SOIL ANALYSIS REPORT

Analytical Method(s):

SMP Buffer pH Mehlich 3 Loss On Ignition Water pH

Date Received: 06/21/2017

Date Of Analysis: 06/22/2017

Date Of Report: 06/23/2017

		ОМ	W/V	ENR		Phosphorus		Potassium	Magnesium	Calcium	Sodium	р	Н	Acidity	C.E.C
Sample ID Field ID	Lab Number	% Rate	Soil Class	lbs/A	M3 ppm Rate	ppm Rate	ppm Rate	K ppm Rate	Mg ppm Rate	Ca ppm Rate	Na ppm Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
DWTBA-5	06367	1.9 L		82	54 H			42 L	96 H	600 H		6.6	6.91	0.2	4.1

	0.1	Perce	nt Base	Saturati	on	Nitrate	Sulfur	Zir	nc -	Manga	nese	Iron	Copper	Boron	Soluble Salts	
Sample ID Field ID	K %	Mg %	Ca %	Na %	H %	NO ₃ N ppm Rate	S ppm Rate	Z ppm	12000	Mı ppm	n Rate	Fe ppm Rate	Cu ppm Rate	B ppm Rate	SS ms/cm Rate	
DWTBA-5	2.6	19.5	73.2		4.9			3.7	Η	24	Н					

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: Waypoint Analytical Virginia, Inc.

Pauric McGroary

Date Received: 06/21/2017

Date Of Report: 06/23/2017

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N Ib/A	Phosphate P ₂ O ₅ Ib/A	Potash K₂O Ib/A	Magnesium Mg Ib/A	Sulfur S Ib/A	Zinc Zn Ib/A	Manganese Mn Ib/A	Iron Fe Ib/A	Copper Cu Ib/A	Boron B Ib/A
DWTBA-5	Adjust pH to 6.8	0	1.0				0			0			

Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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THE PLANNER IS NOT STATE CERTIFIED

Nutrient Management Plan Balance Sheet (Spring, 2013-Summer, 2014) Thomas Abernathy Planner: Recyc Systems, Inc.

Tract: 806

Location: Dinwiddie

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (Ibs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (Ibs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (Ibs/ac)	Notes	en autoriales
4:5:8/DWTBA 1(N)	24/24	2013	Grass Pasture	50-0-50	0/0				50-0-50	N/A			
7,9/DWTBA 2(N)	16/16	2013	Grass Pasture	50-0-50	0/0				50-0-50	N/A			
2,3,6,7/DWTBA 3(N)	20/20	2013	Grass Pasture	50-0-40	0/0				50-0-40	N/A			
1/DWTBA 4(N)	8/8	2013	Grass Pasture	50-0-40	0/0				50-0-40	N/A			
16/DWTBA 5(N)	21/21	2013	Grass Pasture	50-0-50	0/0				50-0-50	N/A			

Commercial Application Methods: br - Broadcast ba - Banded sd - Sidedress

Notes:

Soil Test Summary

Tract	Field	Acre	Date	P2O5	K2O	Lab	Soil pH	Lime Date	rec. lime tons/Ac
806	DWTBA 1	24	2012-Fa	H- (53 P ppm)	M- (63 K ppm)	A&L MIII	5.6		
806	DWTBA 2	16	2012-Fa	H- (49 P ppm)	M- (57 K ppm)	A&L MIII	6.		
806	DWTBA 3	20	2012-Fa	H- (47 P ppm)	M (85 K ppm)	A&L MIII	5.8		
806	DWTBA 4	8	2012-Fa	H (98 P ppm)	M (95 K ppm)	A&L MIII	5.8		
806	DWTBA 5	21	2012-Fa	H- (54 P ppm)	M- (66 K ppm)	A&L MIII	6.		

Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
806	806/4;5;8	DWTBA 1	24	Appling	IVa	II	Ш	Ш	
	806/7,9	DWTBA 2	16	Appling	IVa	Ш	Ш	111	
	806/2,3,6, 7	DWTBA 3	20	Appling	IVa	Ш	III	III	
	806/1	DWTBA 4	8	Appling	IVa	П	Ш	III	
	806/16	DWTBA 5	21	Appling	IVa	Ш	Ш	Ш	

Yield Range

Field Productivity Group	Corn Grain Bu/Acre	Barley/Intensive Wheat Bu/Acre	Std. Wheat Bu/Acre	Alfalfa Tons/Acre	Grass/Hay Tons/Acre
I	>170	>80	>64	>6	>4.0
11	150-170	70-80	56-64	4-6	3.5-4.0
Ш	130-150	60-70	48-56	<4	3.0-3.5
IV	100-130	50-60	40-48	NA	<3.0
V	<100	<50	<40	NA	NA

Farm Summary Report

Plan: New Plan Spring, 2013 - Summer, 2014

Farm Name: Thomas Abernathy

Location: Dinwiddie

Specialist: Recyc Systems, Inc.

N-based Acres: 87.6 P-based Acres: 0.0

Tract Name: 806 FSA Number: 806

Location: Dinwiddie

Field Name: DWTBA 1

Total Acres: 23.80 Usable Acres: 23.80

FSA Number: 4;5;8 Tract: 806

Location: Dinwiddie

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

Fa-2012 5.6 H-(53 P ppm) M-(63 K ppm) A&L MIII

Soils:

PERCENT SYMBOL SOIL SERIES

Appling 87 2B 2C Appling 13

Field Warnings:

Crop Rotation:

PLANTED **YIELD** **CROP NAME**

2013-Sp

2.3 acres/AU

Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name:

DWTBA 2

Total Acres:

15.60 Usable Acres: 15.60

FSA Number: Tract:

7,9 806

В

Location:

Dinwiddie

Slope Class:

Hydrologic Group:

В

Riparian buffer width: 0 ft Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE

PH

K

Lab

Fa-2012

6.0

H-(49 P ppm)

M-(57 K ppm)

A&L MIII

Soils:

PERCENT

SYMBOL

SOIL SERIES

83

2B

Appling

17

2C

Appling

Field Warnings:

Crop Rotation:

PLANTED

YIELD

CROP NAME

2013-Sp

2.3 * acres/AU

Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name:

DWTBA 3

Total Acres:

19.50 Usable Acres: 19.50

FSA Number: Tract:

2,3,6,7 806

В

Location:

Dinwiddie

Slope Class:

Hydrologic Group:

В

Riparian buffer width: 0 ft Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE

PH

Р

K

Lab

Fa-2012

5.8

H-(47 P ppm)

M(85 K ppm)

A&L MIII

Soils:

PERCENT

SYMBOL

SOIL SERIES

87 13 2B

2C

Appling Appling

Field Warnings:

Crop Rotation:

PLANTED

YIELD

CROP NAME

2013-Sp

2.3 acres/AU

Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name:

DWTBA 4

Total Acres:

Usable Acres: 8.10 8.10

FSA Number: 1

Tract:

806

Location:

Dinwiddie

Slope Class:

В

Hydrologic Group:

В

Riparian buffer width: 0 ft Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE Fa-2012

PH

P H(98 P ppm) K

Lab

5.8

M(95 K ppm)

A&L MIII

Soils:

PERCENT

SYMBOL

SOIL SERIES

80

2B

Appling

20

Appling 2C

Field Warnings:

Crop Rotation:

PLANTED

YIELD

CROP NAME

2013-Sp

2.3 acres/AU

Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name:

DWTBA 5

Total Acres: FSA Number: 20.60 Usable Acres: 20.60

16

Tract:

806

Location:

Dinwiddie

Slope Class:

В

Hydrologic Group:

В

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH

K

Lab

Fa-2012

6.0

H-(54 P ppm)

M-(66 K ppm)

A&L MIII

Soils:

PERCENT

SYMBOL

SOIL SERIES

61

2B

Appling

25

2C

Appling

15

4B Cecil

Field Warnings:

Crop Rotation:

PLANTED

YIELD

CROP NAME

2013-Sp

2.2 * acres/AU

Orchard grass/fescue pastures<=25% legume, maint. - No Till

Tract Name:

837 837

FSA Number: Location:

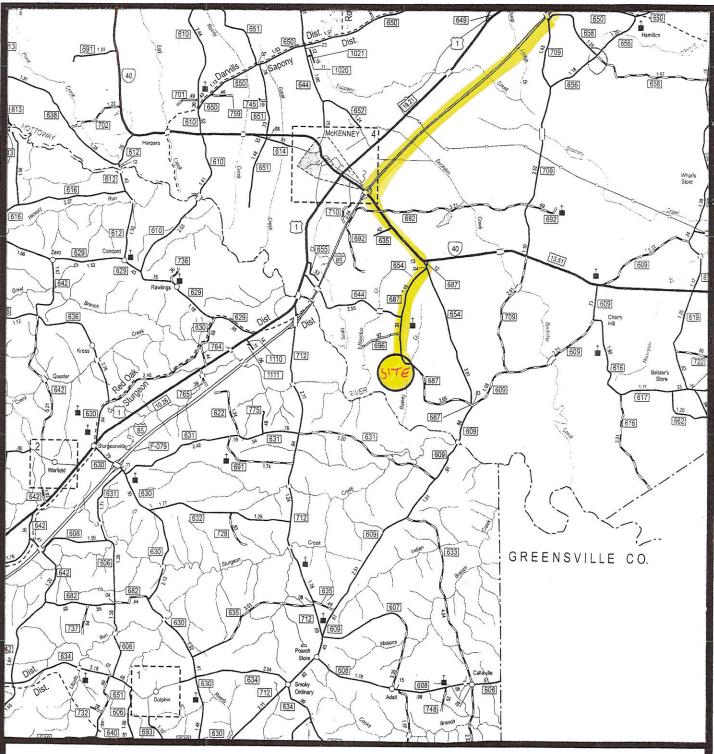
Dinwiddie

MAPS

Recyc Systems™

(Biosolids Land Application)





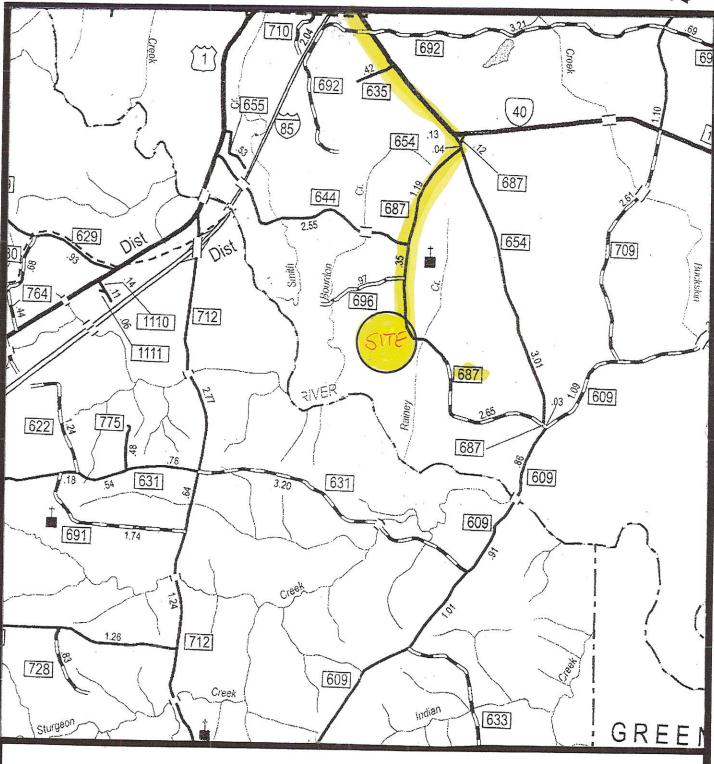
Scale: 1 inch = 2 miles

DWTBA 1-5

11-5-19

(Biosolids Land Application)



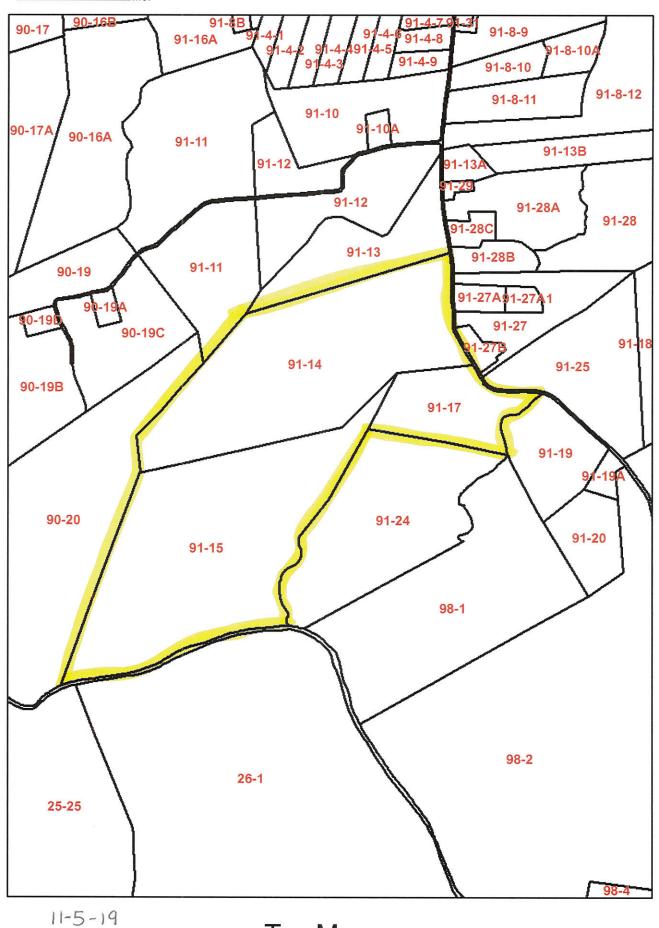


Scale:

1 inch = 1 mile

DWTBA 1-5

11-5-19

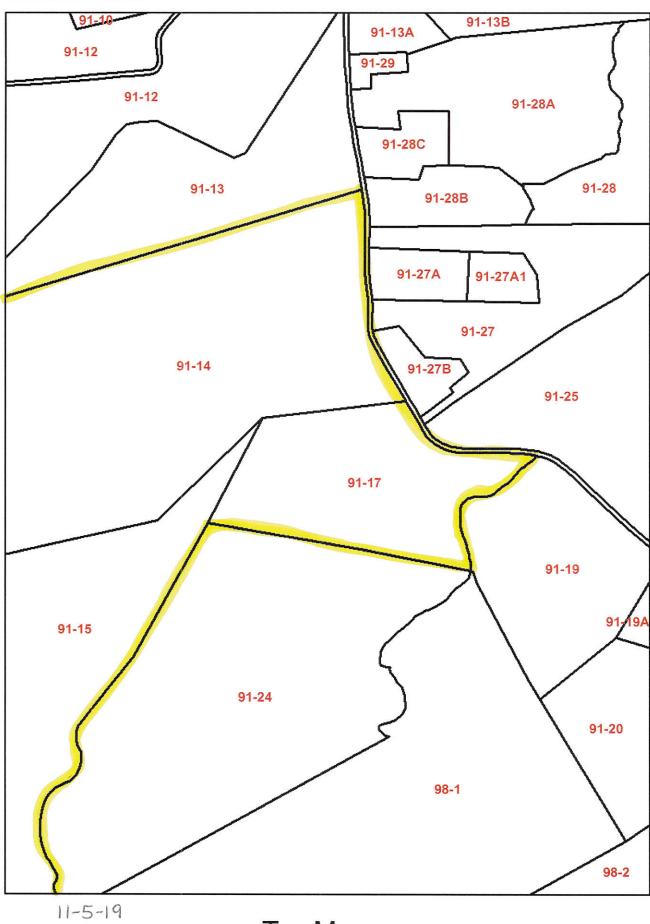




Tax Map



Thomas B. Abernathy DWTBA



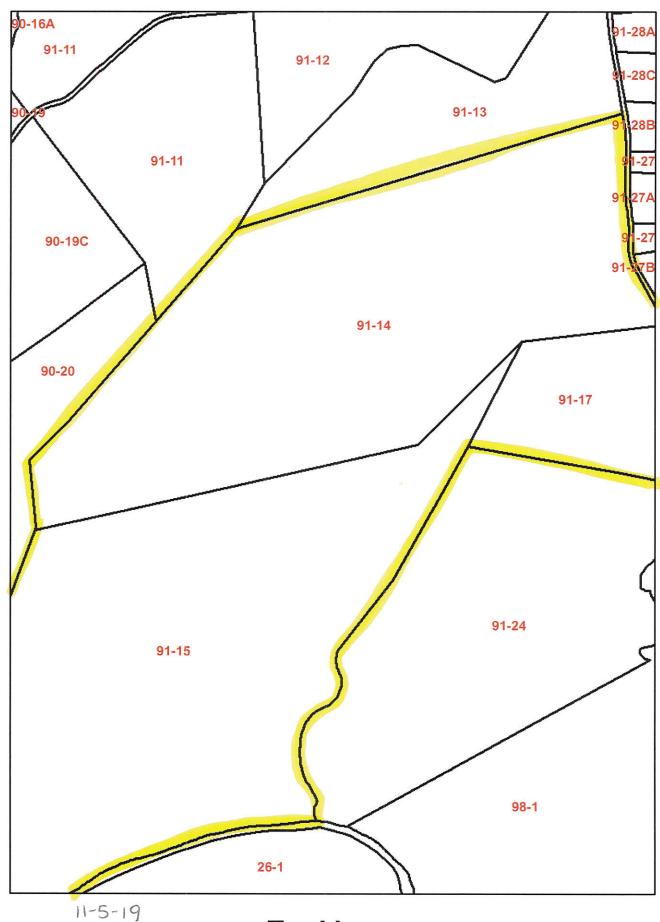


Tax Map

1 in = 660 feet



Thomas B. Abernathy DWTBA





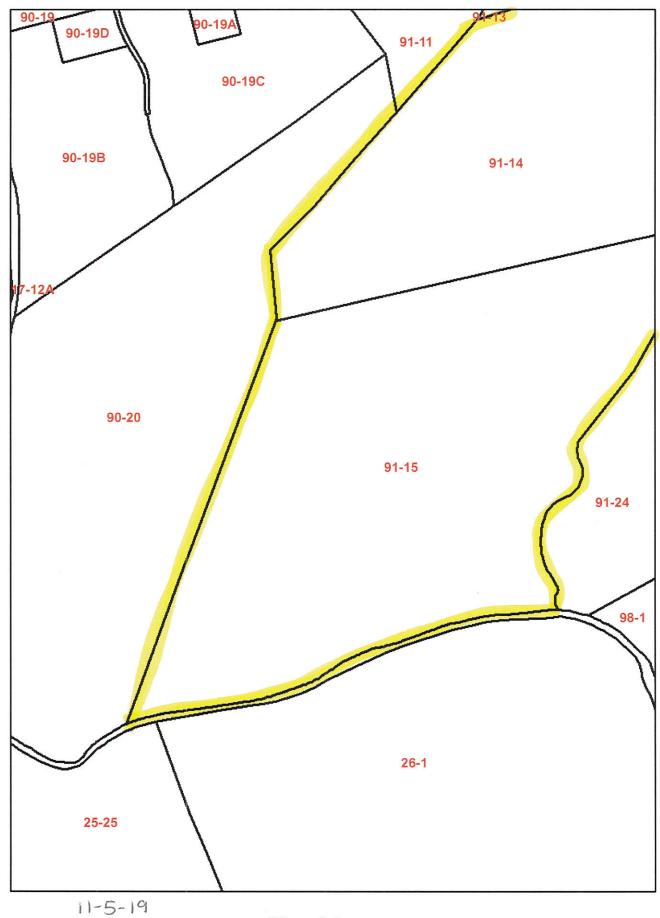
Tax Map

1 in = 660 feet



Thomas B. Abernathy

DWTBA





Tax Map

1 in = 660 feet

ADJOINING LANDOWNERS

Thomas B. Abernathy

DINWIDDIE COUNTY

Tax Map	Parcel #	Owner Name(s)
90	20	Tony C. Jr. and Jennifer L. Christopher
91	11 13 19 24 25 27 27A 27B	Peter W. Janzen Mark A. or Gina W. Davis Ernest W. and Anne R. Howerton Family Tree Properties LLC Gholson Farm LLC c/o Thomas Dillard Ernest W. and Anne R. Howerton Alvin C. and Loretta M. Booth
	27B 28B	Ernest W. and Anne R. Howerton Megan Rose and John Kennedy or Karen Marie Howerton
98	1	Wilson Trading Post LLC c/o Charlie C. Wilson
		Brunswick
25	25	Donald B. Powell
26	1	Elizabeth P. Steed







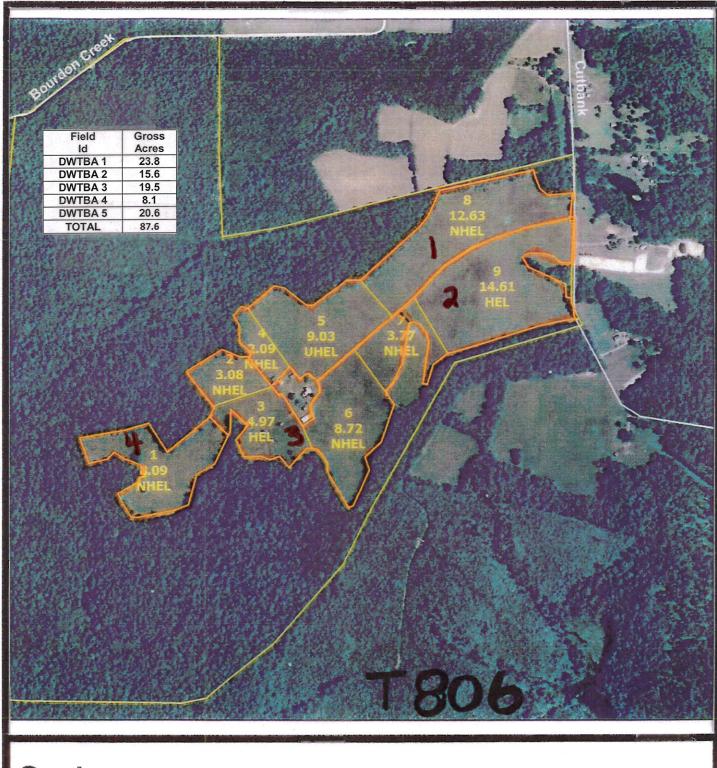






(Biosolids Land Application)





Scale: 1 inch = 660 feet

DWTBA 1-4

(Biosolids Land Application)



Field	Gross
ld .	Acres
DWTBA 1	23.8
DWTBA 2	15.6
DWTBA 3	19.5
DWTBA 4	8.1
DWTBA 5	20.6
TOTAL	87.6



T837

Scale: 1 inch = 660 feet

DWTBA 5

AERIAL MAP

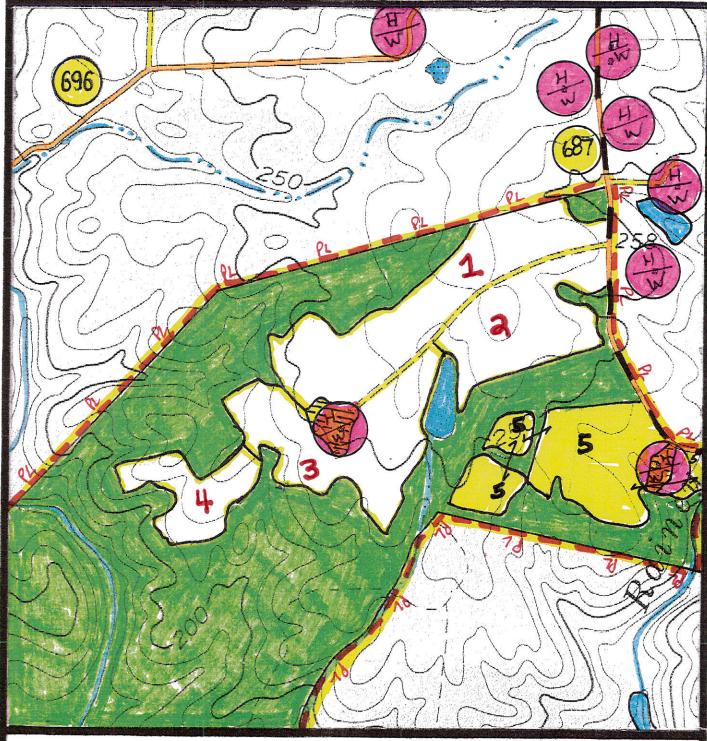
Legend For Site Plan

Symbol	Feature	Minimum Setback
H/W	House and Well	200 feet from occupied dwelling * 100 feet from water supply wells or springs
ws	Well or Spring	100 feet from water supply wells or springs
	Streams or Surface Water	35 feet with 35 foot vegetated buffer 100 feet without vegetated buffer
ш	Wet Spot	
	Trees and Woods	
	Private Drive	
× R	Rock Area/Rock Outcrop	25 feet from rock outcrops 50 feet from limestone rock outcrops
Ξ.	Severely Eroded Spot	18 Inch minimum depth of soil
S	Sink Hole	100 feet from open sinkholes 50 feet from closed sinkholes
Characteristics of programme to the Conference and	State Road	10 feet from side of roadway
	Fence / Field Boundary	
P P P	Property Line	100 feet from property line *
SL S	Slope	15% maximum
	Hashed out Area	No application

^{*}Buffer can be reduced or waived upon written consent from landowner.

(Biosolids Land Application)



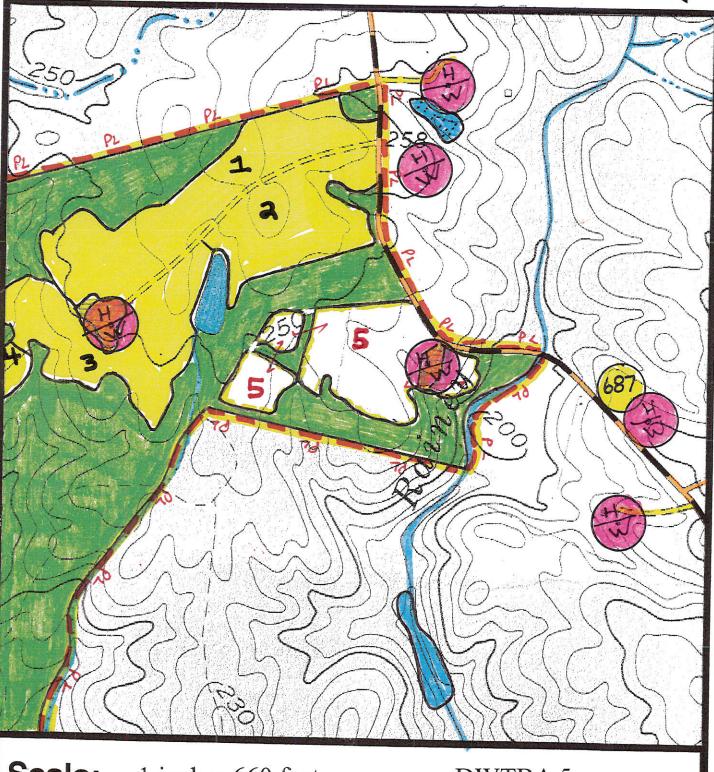


Scale: 1 inch = 660 feet

DWTBA 1-4

(Biosolids Land Application)





Scale:

1 inch = 660 feet

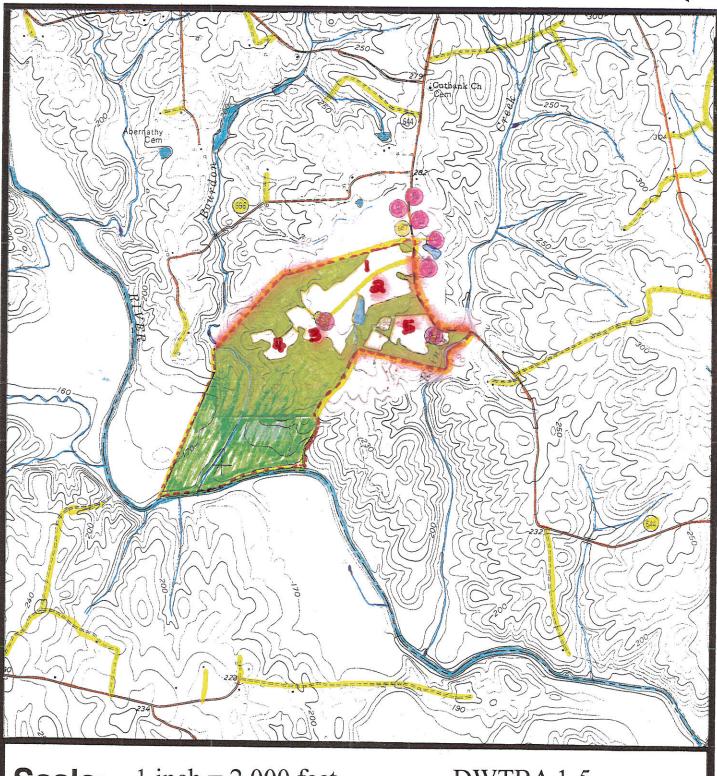
DWTBA 5

SITE PLAN

N

(Biosolids Land Application)





Scale: 1 inch = 2,000 feet

DWTBA 1-5